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			Digital Object Identifier 10.1109/ICATT.2003.1239239 <u>AbstractPlus</u> Full Text: <u>PDF(</u> 435 KB) IEEE CNF	
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			AbstractPlus References Full Text: PDF(152 KB) IEEE JNL	
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Qun Zhang; Tat Soon Yeo;

Geoscience and Remote Sensing, IEEE Transactions on

Volume 42, Issue 9, Sept. 2004 Page(s):1818 - 1828 Digital Object Identifier 10.1109/TGRS.2004.831863 AbstractPlus | References | Full Text: PDF(816 KB) | IEEE JNL

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,L3	1420	aspect adj1 angle\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/07/27 09:00
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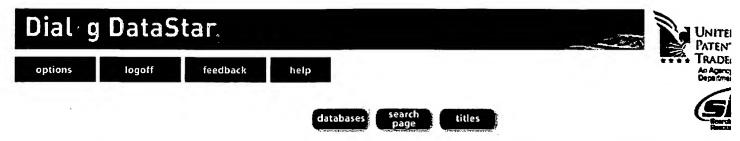
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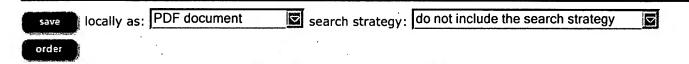
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8256012, B2005-02-7950-053; 20050123.

Title

ISAR imaging of flying helicopters at millimeter-wave frequencies.

Author(s)

Hagelen-M; Wahlen-A; Brehm-T.

Author affiliation

Dept Millimeterwave & Seeker Radar, FGAN Res Inst for High-Frequency Phys & Radar Technique, Wachtberg, Germany.

Source

Conference Proceedings. 1st European Radar Conference, Amsterdam, Netherlands, 14-15 Oct. 2004. In: p.265-8, 2004.

Publication year

2004.

Language

EN.

Publication type

CPP Conference Paper.

Treatment codes

P Practical.

Abstract

The advantages of radar systems operating at millimeter-wave frequencies can be used for imaging flying objects, e.g. helicopters, by means of the ISAR principle. Using this technique, it is possible to deliver a data base, which contains high resolution scatterer distributions of different targets and for different aspect angles. Under civil war conditions, this data can be compared with ISAR images of approaching targets in order to distinguish between friendly and threat vehicles. (10 refs).

Descriptors

<u>backscatter</u>; <u>helicopters</u>; <u>image-classification</u>; <u>image-resolution</u>; <u>millimetre-wave-imaging</u>; <u>radar-imaging</u>; <u>synthetic-aperture-radar</u>.

Keywords

target classification; mm wave ISAR imaging; flying helicopter imaging; flying object imaging; high resolution target scatterer distributions; civil war conditions; friendly threat vehicle discrimination; 10 GHz; 35 GHz; 94 GHz; 800 MHz.

Classification codes

B7950	(Military radar, detection and tracking systems).
B6135	(Optical, image and video signal processing).
B6320	(Radar equipment, systems and applications).

Numerical indexing

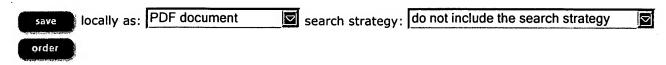
bandwidth: 8.0E+08 Hz;

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Radar Conference, 1997., IEEE National 13-15 May 1997 Page(s):257 - 262

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